ROADWAY GEOMETRIC DESIGN

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Purpose

• To introduce new highway designers and design technicians to the concepts needed for highway geometric design.

 To familiarize class participant with the Engineering Policy Guide (EPG), Standard Drawings for Construction, and the 2001 AASHTO Green Book.



Materials

- Roadway Geometric Design Powerpoint Slides
- MoDOT Engineering Policy Guide
- 2001 AASHTO Green Book

You can use newer versions of the Green Book. However, the location of tables and figures may differ from the version we are using in class

To receive credit for this class, please log on to the Moodle online system to take the quiz.



Agenda

- Section 1: Design Controls & Criteria
 - Roadway Design Resources
 - Definitions
 - Highway Capacity
 - Facility Selection
 - Typical Section Elements
 - Access Management
- Section 2: Horizontal Alignment
 - Definitions
 - Geometric Elements
 - Design Controls & Guidelines
 - Superelevation and Widening of Curves



Agenda

- Section 3: Sight Distance and Vertical Alignment
 - Definitions
 - Stopping Sight Distance
 - Decision Sight Distance
 - Passing Sight Distance
 - Vertical Geometric Elements
 - SSD and Vertical Curves
 - Design Controls & Guidelines

